

PATENT ABSTRACTS

File 347:JAPIO Dec 1976-2008/Oct(Updated 090220)

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File 350:Derwent WPIX 1963-2009/UD=200925

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Set Items Description

- S1 2184135 VIEWER? OR PERSON? OR PEOPLE? OR GUARD? ? OR GUARDIAN? OR -
USER? ? OR ENDUSER? ? OR INDIVIDUAL?
- S2 114916 (MONITOR? OR VIEW OR VIEWS OR VIEWED OR VIEWING OR WATCH???
OR EXAMIN?)(3N)(IMAGE? OR VIDEO? OR PHOTO? ? OR PHOTOGRAPH? -
OR CAMERA? ?(3N)(FEED? ? OR OUTPUT? OR OUT(OUTPUT???)
- S3 4366713 ANOMOL? OR PROBLEM? OR BREACH? OR BREAK(IN? ? OR CRIME? ?
OR BURGL?
- S4 1110737 HUMAN? OR PERSON? OR PEOPLE OR INTRUDER? OR CRIMINAL?
- S5 30547 S3:S4(5N)(SEE??? OR NOTIC? OR OBSERV? OR LOOK??? OR FLAG? -
OR INDICAT? OR DISCOVER? OR MARK???)
- S6 452002 (SERVER? ? OR SYSTEM? ?)(3N)(FORWARD? OR DISTRIBUT? OR DIS-
PLAY? OR TRANSFER? OR PASS??? OR SHOW???)
- S7 130743 (OTHER OR ANOTHER OR ADDITIONAL OR DIFFERENT OR SEPARATE OR
NEXT OR MULTIPL? OR PLURAL? OR SEVERAL OR GROUP OR MANY)(2W)-
S1
- S8 618020 THRESHOLD OR (PREDETERMINED OR PREESTABLISHED OR PRESET OR
(PRE OR PREVIOUS?)(2N)(DETERMINED OR ESTABLISHED OR SET)(3N)-
(NUMBER? ? OR VALUE? ? OR AMOUNT? ?)
- S9 1728 (PERCENT? OR MAJORITY OR MOST OR ALL)(5N)S7
- S10 180391 ALARM? OR ALERT? OR (NOTIFY??? OR NOTIF OR CALL??? OR CON-
TACT?)(3N)(POLICE OR AUTHORITY? OR SECURITY)
- S11 180 S2(10N)S5
- S12 1846 S6(10N)S7
- S13 0 S11 AND S12
- S14 20 S11 AND S7
- S15 0 S14 AND S8:S9
- S16 0 S14 AND S10
- S17 12 S14 AND PY=1963:2003
- S18 13 S14 AND AY=1963:2003
- S19 17 S17:S18
- S20 136 S1(5N)S11
- S21 4 S20 AND (SECURITY OR CRIME? OR CRIMINAL? OR BURGL? OR BREA-
K(IN? ?)
- S22 90 S11 AND IC=(H04N OR G08B)
- S23 15 S11 AND IC=G08B
- S24 14 S23 NOT (S19 OR S21)
- S25 7 S24 AND PY=1963:2003
- S26 7 S24 AND AY=1963:2003
- S27 9 S25:S26
- S28 997 S5(10N)S7
- S29 51 S28 AND IC=G08B
- S30 2 S29 AND S2
- S31 62 S28 AND S2
- S32 1 S31 AND S8:S9
- S33 8 S31 AND (SECURITY OR CRIME? OR CRIMINAL? OR BURGL? OR BREA-

K()IN? ?)

S34 2 S31 AND S10
S35 9 S32:S34 NOT (S19 OR S21 OR S27 OR S30)
S36 2 S35 AND PY=1963:2003
S37 7 S35 AND AY=1963:2003
S38 7 S36:S37
S39 808 REMOT?(3N)SURVEILL?
S40 19 S39 AND S7
S41 19 S40 NOT (S19 OR S21 OR S27 OR S30 OR S38)
S42 11 S41 AND PY=1963:2003
S43 17 S41 AND AY=1963:2003
S44 17 S42:S43

FULL-TEXT PATENTS

File 348:EUROPEAN PATENTS 1978-200916

(c) 2009 European Patent Office

File 349:PCT FULLTEXT 1979-2009/UB=20090416(UT=20090409

(c) 2009 WIPO/Thomson

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Set	Items	Description
S1	1412728	VIEWER? OR PERSON? OR PEOPLE? OR GUARD? ? OR GUARDIAN? OR - USER? ? OR ENDUSER? ? OR INDIVIDUAL?
S2	84176	(MONITOR? OR VIEW OR VIEWS OR VIEWED OR VIEWING OR WATCH??? OR EXAMIN?)(3N)(IMAGE? OR VIDEO? OR PHOTO? ? OR PHOTOGRAPH? - OR CAMERA? ?(3N)(FEED? ? OR OUTPUT? OR OUT(OUT?PUT?)))
S3	1357254	ANOMOL? OR PROBLEM? OR BREACH? OR BREAK(IN? ? OR CRIME? ? OR BURGL?
S4	973200	HUMAN? OR PERSON? OR PEOPLE OR INTRUDER? OR CRIMINAL?
S5	139185	S3:S4(5N)(SEE??? OR NOTIC? OR OBSERV? OR LOOK??? OR FLAG? - OR INDICAT? OR DISCOVER? OR MARK???)
S6	445409	(SERVER? ? OR SYSTEM? ?)(3N)(FORWARD? OR DISTRIBUT? OR DIS-PLAY? OR TRANSFER? OR PASS??? OR SHOW???)
S7	235383	(OTHER OR ANOTHER OR ADDITIONAL OR DIFFERENT OR SEPARATE OR NEXT OR MULTIPL? OR PLURAL? OR SEVERAL OR GROUP OR MANY)(2W)-S1
S8	416782	THRESHOLD OR (PREDETERMINED OR PREESTABLISHED OR PRESET OR (PRE OR PREVIOUS?)(2N)(DETERMINED OR ESTABLISHED OR SET))(3N)-(NUMBER? ? OR VALUE? ? OR AMOUNT? ?)
S9	9045	(PERCENT? OR MAJORITY OR MOST OR ALL)(5N)S7
S10	119110	ALARM? OR ALERT? OR (NOTIFY??? OR NOTIFI OR CALL??? OR CON-TACT?)(3N)(POLICE OR AUTHORIT? OR SECURITY)
S11	297	S1(5N)S2(10N)S5
S12	33	S11(50N)S7
S13	3	S11(50N)S8:S9
S14	7	S11(20N)S10
S15	23	S12:S14 AND PY=1978:2003
S16	26	S12:S14 AND AY=1978:2003
S17	26	S15:S16

NPL ABSTRACTS

- File 8: Ei Compendex(R) 1884-2009/Apr W2
(c) 2009 Elsevier Eng. Info. Inc.
- File 35: Dissertation Abs Online 1861-2009/Mar
(c) 2009 ProQuest Info&Learning
- File 65: Inside Conferences 1993-2009/Apr 28
(c) 2009 BLDS all rts. reserv.
- File 2: INSPEC 1898-2009/Apr W1
(c) 2009 Institution of Electrical Engineers
- File 6: NTIS 1964-2009/Apr W4
(c) 2009 NTIS, Intl Cpyright All Rights Res
- File 144: Pascal 1973-2009/Apr W4
(c) 2009 INIST/CNRS
- File 34: SciSearch(R) Cited Ref Sci 1990-2009/Apr W2
(c) 2009 The Thomson Corp
- File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp
- File 99: Wilson Appl. Sci & Tech Abs 1983-2009/Feb
(c) 2009 The HW Wilson Co.
- File 95: TEME: Technology & Management 1989-2009/Apr W1
(c) 2009 FIZ TECHNIK
- File 23: CSA Technology Research Database 1963-2009/Apr
(c) 2009 CSA.
- File 256: TechnoSource 82-2009/Feb
(c) 2009 Info.Sources Inc

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Set	Items	Description
S1	4964253	VIEWER? OR PERSON? OR PEOPLE? OR GUARD? ? OR GUARDIAN? OR - USER? ? OR ENDUSER? ? OR INDIVIDUAL?
S2	92112	(MONITOR? OR VIEW OR VIEWS OR VIEWED OR VIEWING OR WATCH??? OR EXAMIN?)(3N)(IMAGE? OR VIDEO? OR PHOTO? ? OR PHOTOGRAPH? - OR CAMERA? ?(3N)(FEED? ? OR OUTPUT? OR OUT(PUT????))
S3	6156238	ANOMOL? OR PROBLEM? OR BREACH? OR BREAK()IN? ? OR CRIME? ? OR BURGL?
S4	8788714	HUMAN? OR PERSON? OR PEOPLE OR INTRUDER? OR CRIMINAL?
S5	376687	S3:S4(5N)(SEE??? OR NOTIC? OR OBSERV? OR LOOK??? OR FLAG? - OR INDICAT? OR DISCOVER? OR MARK???)
S6	1067057	(SERVER? ? OR SYSTEM? ?)(3N)(FORWARD? OR DISTRIBUT? OR DISPLAY? OR TRANSFER? OR PASS??? OR SHOW???)
S7	178496	(OTHER OR ANOTHER OR ADDITIONAL OR DIFFERENT OR SEPARATE OR NEXT OR MULTIPL? OR PLURAL? OR SEVERAL OR GROUP OR MANY)(2W)-S1
S8	783766	THRESHOLD OR (PREDETERMINED OR PREESTABLISHED OR PRESET OR (PRE OR PREVIOUS?)(2N)(DETERMINED OR ESTABLISHED OR SET)(3N)-(NUMBER? ? OR VALUE? ? OR AMOUNT? ?)
S9	4890	(PERCENT? OR MAJORITY OR MOST OR ALL)(5N)S7
S10	162810	ALARM? OR ALERT? OR (NOTIFY??? OR NOTIF OR CALL??? OR CONTACT?)(3N)(POLICE OR AUTHORIT? OR SECURITY)
S11	246	S2(10N)S5

S12 1018 S6(10N)S7
 S13 0 S11 AND S12
 S14 10 S11 AND S7
 S15 5 RD (unique items)
 S16 2 S15 NOT PY=2004:2009
 S17 66 S1(5N)S11
 S18 13 S17 AND (SECURITY OR CRIME? OR CRIMINAL? OR BURGL? OR BREA-
 K()IN? ? OR SURVEIL?)
 S19 7 RD (unique items)
 S20 7 S19 NOT S16
 S21 4 S20 NOT PY=2004:2009
 S22 2502 S5(10N)S7
 S23 22 S22 AND S2
 S24 17 RD (unique items)
 S25 10 S24 NOT PY=2004:2009
 S26 10 S25 NOT (S16 OR S21)
 S27 106 S22 AND (SECURITY OR CRIME? OR CRIMINAL? OR BURGL? OR BREA-
 K()IN? ? OR SURVEIL?)
 S28 70 S27 NOT PY=2004:2009
 S29 60 RD (unique items)
 S30 3 S29 AND S8:S9
 S31 1 S29 AND S10
 S32 4 S30:S31
 S33 2624 REMOT?(3N)SURVEIL?
 S34 20 S33 AND S7
 S35 109 S33 AND S2
 S36 4 S35 AND S5
 S37 24 S33 AND S8:S9
 S38 199 S33 AND S10
 S39 16 S38 AND S6
 S40 62 (S34 OR S36 OR S37 OR S39)
 S41 62 S40 NOT (S16 OR S21 OR S26 OR S32)
 S42 54 RD (unique items)
 S43 26 S42 NOT PY=2004:2009

Web:

(security OR surveillance) system "group of people monitor images"

remote surveillance (group OR multiple) "people monitor images"

PATENT ABSTRACTS

21/5/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0009051413 *Drawing available*

WPI Acc no: 1998-609551/199851

XRPX Acc No: N1998-474140

Monitoring system used in myriad location - has comparator that compares image data of selected region with reference image data

Patent Assignee: ADRAIN J B (ADRA-I)

Inventor: ADRAIN J B

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5831669	A	19981103	US 1996677100	A	19960709	199851	B

Priority Applications (no., kind, date): US 1996677100 A 19960709

Patent Details

Patent Number	Kind	Ln	Pgs	Draw	Filing Notes
US 5831669	A	EN	7	2	

Alerting Abstract US A

The system (10) includes a pair of cameras (12,13) that photographs the desired area like room, entry, passage. An interpreter (16) selects the image data from the cameras based on the analysis criteria from a programmer (18).

The reference image data is stored in a reference memory (20). A comparator (22) compares the image data of selected image portions and the reference image data. The comparison result is output through an output interface (24).

USE - For analysis of thermal images for detecting overheating of equipment. For home, office, amusement park, traffic system.

ADVANTAGE - Enables effective usage in identification of irregularities in cards playing. Facilitates reliable identification of breaches of **security** with minimal false alarms. Enables identification of license plates for detecting stolen vehicles.

21/5/4 (Item 4 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0007407496 *Drawing available*
WPI Acc no: 1996-014457/199602
XRPX Acc No: N1996-012571

Amusement arcade monitoring appts. for security - includes camera to work in dual mode, to record continuously during business hours, and to record still images whenever person monitor indicates presence of possible intruder at night-time

Patent Assignee: DAIKOKU DENKI KK (DAIK-N)

Inventor: OZAKI N

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
JP 7275478	A	19951024	JP 199469319	A	19940407	199602	B

Priority Applications (no., kind, date): JP 199469319 A 19940407

Patent Details					
Patent Number	Kind	Lang	Pgs	Draw	Filing Notes
JP 7275478	A	JA	7	3	

Alerting Abstract JP A

The game parlour monitoring appts. consists of a camera (1), a control device (5) and an illegal monitoring system (2). During the working period of the game parlour, the camera is set to a mode suitable for monitoring the state of game machines.

During the period of closure of game parlour, the camera is switched to another mode for monitoring the invaders that enter the game parlour and perform mischievous play. If an invader is found, then a video tape recorder records the movement of the person and the area is illuminated.

ADVANTAGE - Reduces amount of processing, recording etc. required without losing effectiveness.

[your application]

38/5/1 (Item 1 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0016365443 *Drawing available*

WPI Acc no: 2007-081613/200708

Related WPI Acc No: 2004-707972; 2004-735823; 2007-032838; 2007-043152; 2007-081462; 2007-081612; 2007-466669

XRPX Acc No: N2007-056668

Image analysis method for monitoring critical civilian infrastructure e.g. water supply, involves providing image of specific area to additional guardians and responses from guardians are evaluated, so that to notify to entity

Patent Assignee: ALDERUCCT D P (ALDE-I); GELMAN G M (GELM-I); JORASCH J A (JORA-I); ONEIL V M (ONEI-I); TEDESCO D E (TEDE-I); TULLEY S C (TULL-I); WALKER J S (WALK-I)

Inventor: ALDERUCCT D P; GELMAN G M; JORASCH J A; ONEIL V M; TEDESCO D E; TULLEY S C; WALKER J S

Patent Family (1 patents, 1 countries)						
Patent Number	Kind	Date	Application Number	Kind	Date	Update Type
US 20060248028	A1	20061102	US 2003450459	P	20030226	200708 B
			US 2003450465	P	20030226	
			US 2003466497	P	20030429	
			US 2003491574	P	20030731	
			US 2004786831	A	20040225	
			US 2004787283	A	20040226	
			US 2006426460	A	20060626	

Priority Applications (no., kind, date): US 2003450459 P 20030226; US 2003450465 P 20030226; US 2003466497 P 20030429; US 2003491574 P 20030731; US 2004786831 A 20040225; US 2004787283 A 20040226; US 2006426460 A 20060626

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060248028	A1	EN	31	2	Related to Provisional	US 2003450459
					Related to Provisional	US 2003450465
					Related to Provisional	US 2003466497
					Related to Provisional	US 2003491574
					C-I-P of application	US 2004786831
					Continuation of application	US 2004787283

Alerting Abstract US A1

NOVELTY - The method involves receiving an image of an area in which human activity is desired to be nonexistent and determining information related to imaged area. A request for guardian to monitor and an identifier is received and the image is provided to guardian after authenticating the guardian. A response comprising an indication that human is present in image is received from guardian. The image is provided to additional guardians and the responses from guardian are evaluated. An entity to notify is determined based on information related to area.

USE - For monitoring critical civilian infrastructure such as an airport, chemical plant, natural gas plant, refinery, reservoir, pipeline and pumping station, nuclear and non-nuclear power plant by remotely-located individuals ('guardians') who may be remunerated for alerting authorities to intrusions and the like.

ADVANTAGE - Facilitates usage of an online workforce to remotely monitor security sensitive sites and report potential security breaches.

DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the network configuration.

100 network

110 sensors

120 image processing and distribution node

130 neuron

[your invention]

38/5/2 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0016365442 *Drawing available*

WPI Acc no: 2007-081612/200708

Related WPI Acc No: 2004-707972; 2004-735823; 2007-032838; 2007-043152; 2007-081462; 2007-081613; 2007-466669

XRPX Acc No: N2007-056667

Image analysis method for use in network, involves determining entity based on information related to area for notifying entity

Patent Assignee: ALDERUCCI D P (ALDE-I); GELMAN G M (GELM-I); JORASCH J A (JORA-I);

ONEIL V M (ONEI-I); TEDESCO D E (TEDE-I); TULLEY S C (TULL-I); WALKER J S (WALK-I)

Inventor: ALDERUCCI D P; GELMAN G M; JORASCH J A; ONEIL V M; TEDESCO D E; TULLEY S C; WALKER J S

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060248027	A1	20061102	US 2003450459	P	20030226	200708	B
			US 2003450465	P	20030226		
			US 2003466497	P	20030429		
			US 2003491574	P	20030731		
			US 2004786831	A	20040225		
			US 2004787283	A	20040226		
			US 2006426449	A	20060626		

Priority Applications (no., kind, date): US 2003450459 P 20030226; US 2003450465 P 20030226; US 2003466497 P 20030429; US 2003491574 P 20030731; US 2004786831 A 20040225; US 2004787283 A 20040226; US 2006426449 A 20060626

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060248027	A1	EN	31	2	Related to Provisional	US 2003450459
					Related to Provisional	US 2003450465
					Related to Provisional	US 2003466497
					Related to Provisional	US 2003491574
					C-I-P of application	US 2004786831
					Continuation of application	US 2004787283

Alerting Abstract US A1

NOVELTY - An image is received from a camera to determine information related to the area for receiving request for user to monitor. A user identifier is received to verify that the user identifier corresponds to the user. A response comprising an indication that human is present in the image is received by the user. The responses to the image are received by additional users and received responses are evaluated. An entity is determined based on information related to the area for notifying the entity.

USE - For image analysis in network such as local area network (LAN), wide area network (WAN), internet.

ADVANTAGE - The usage of online workforce is facilitated and **security** sensitive sites are monitored remotely. The potential **security** breaches are reported efficiently.

DESCRIPTION OF DRAWINGS - The figure shows a schematic diagram of network.

100 **network**

110 **sensors**

120 **distribution node**

130 **neurons**

[your invention]

38/5/3 (Item 3 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0016365292 *Drawing available*

WPI Acc no: 2007-081462/200708

Related WPI Acc No: 2004-707972; 2004-735823; 2007-032838; 2007-043152; 2007-081612; 2007-081613; 2007-466669

XRPX Acc No: N2007-056518

Image analysis method in network, involves determining entity to notify, based on information related to region

Patent Assignee: ALDERUCCI D P (ALDE-I); GELMAN G M (GELM-I); JORASCH J A (JORA-I);

ONEIL V M (ONEI-I); TEDESCO D E (TEDE-I); TULLEY S C (TULL-I); WALKER J S (WALK-I)

Inventor: ALDERUCCI D P; GELMAN G M; JORASCH J A; ONEIL V M; TEDESCO D E; TULLEY S C; WALKER J S

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20060245622	A1	20061102	US 2003450459	P	20030226	200708	B
			US 2003450465	P	20030226		
			US 2003466497	P	20030429		
			US 2003491574	P	20030731		
			US 2004786831	A	20040225		
			US 2004787283	A	20040226		
			US 2006426439	A	20060626		

Priority Applications (no., kind, date): US 2003450459 P 20030226; US 2003450465 P 20030226; US 2003466497 P 20030429; US 2003491574 P 20030731; US 2004786831 A 20040225; US 2004787283 A 20040226; US 2006426439 A 20060626

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20060245622	A1	EN	31	2	Related to Provisional	US 2003450459
					Related to Provisional	US 2003450465
					Related to Provisional	US 2003466497
					Related to Provisional	US 2003491574
					C-I-P of application	US 2004786831
					Continuation of application	US 2004787283

Alerting Abstract US A1

NOVELTY - A user identifier is verified and an image is provided to the user. A response comprising an indication that a human is present in the image is received. The image is provided to the additional users, and the received responses are evaluated. An entity is determined, based on the information related to a region, and the entity is notified.

USE - As a network-based surveillance system in which so-called 'guardians' remotely monitor, e.g. via the internet, the output of surveillance cameras which provide images of areas in which human presence is not expected or permitted, such as secure areas, nuclear and non-nuclear power stations, oil pipelines and the

like.

ADVANTAGE - The sensitivity of the analysis is improved.

DESCRIPTION OF DRAWINGS - The figure illustrates the network.

100 network

110 sensors

120 distribution node

130 neurons

[your invention]

38/54 (Item 4 from file: 350)
DIALOG(R)File 350: Derwent WPIX
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0014526022 *Drawing available*

WPI Acc no: 2004-707972/200469

Related WPI Acc No: 2004-735823; 2005-306156; 2007-032838; 2007-043152; 2007-081462; 2007-081612; 2007-081613; 2007-466669

XRPX Acc No: N2004-561285

Security sensitive site e.g. school bus, monitoring method, involves providing additional users with image, evaluating received responses to image, and notifying entity determined based on information related to area

Patent Assignee: ALDERUCCI D P (ALDE-I); GELMAN G M (GELM-I); JORASCH J A (JORA-I);

O'NEILL V M (ONEI-I); TEDESCO D E (TEDE-I); TULLEY S C (TULL-I); WALKER J S (WALK-I)

Inventor: ALDERUCCI D P; GELMAN G M; JORASCH J A; O'NEILL V M; TEDESCO D E; TULLEY S C; WALKER J S

Patent Family (1 patents, 1 countries)								
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type	
US 20040186813	A1	20040923	US 2003450459	P	20030226	200469	B	
			US 2003450465	P	20030226			
			US 2003466497	P	20030429			
			US 2003491574	P	20030731			
			US 2004787283	A	20040226			

Priority Applications (no., kind, date): US 2003450459 P 20030226; US 2003450465 P 20030226; US 2003466497 P 20030429; US 2003491574 P 20030731; US 2004787283 A 20040226

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040186813	A1	EN	32	2	Related to Provisional	US 2003450459
					Related to Provisional	US 2003450465
					Related to Provisional	US 2003466497
					Related to Provisional	US 2003491574

Alerting Abstract US A1

NOVELTY - The method involves providing a user with an image received from an image capture device. A response by the user is received, where the response includes an indication that a human is present in the image. Image is provided to additional users and the received responses to the image are evaluated by the additional users. An entity is determined based on information related to an area and the entity is notified.

USE - Used for remotely monitoring security sensitive site e.g. critical civilian infrastructure such as water supplies and a nuclear reactor, neighbor's car, and a telephone pole, approach zone e.g. driveway and a doorway, school bus, playground, bus stop, to monitor for unscrupulous individual e.g. kidnapper, drug dealer, or dangerous behavior e.g. altercations and drug use.

ADVANTAGE - The method is capable of monitoring the security sensitive sites effectively to combat terrorism. The method allows to reward the users with bonuses or enhanced compensation for spotting real emergencies.

DESCRIPTION OF DRAWINGS - DESCRIPTION OF DRAWING - The drawing shows an illustration of a network.

100 Network

110 Sensors

120 Distribution node

130 Neurons

FULL-TEXT PATENTS

[no relevant results]

NPL ABSTRACTS

43/5/5 (Item 5 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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0012576657 E.I. COMPENDEX No: 1991090235599

Architecture for surveillance in real time using nonlinear image processing hardware

Pais, Cassiano; Carvalho, Fernando D.; Silvestre, Victor

Corresp. Author/Affil: Pais, Cassiano: Lab Natl de Engenharia e Tecnologica, Industrial, Lisboa, Portugal

Editor(s): Dougherty, Edward R.; Arce, Gonzalo R.; Boncelet, Charles G.Jr.

Editor(s) Affil.: Rochester Inst of Technology, Rochester, NY, United States

Conference Title: Nonlinear Image Processing II

Conference Location: San Jose, CA, USA **Conference Date:** 19910228-19910301

Sponsor: SPIE; Soc for Imaging Science & Technology - IS&T

E.I. Conference No.: 14847

Proceedings of SPIE - The International Society for Optical Engineering (Proc SPIE Int Soc Opt Eng)
1991 1451/- (282-288)

Publication Date: 19910101

Publisher: Publ by Int Soc for Optical Engineering

CODEN: PSISD **ISSN:** 0277-786X

Document Type: Conference Paper; Conference Proceeding **Record Type:** Abstract

Treatment: A; (Applications)

Language: English **Summary Language:** English

A remote machine vision system is presented which addresses three critical aspects of surveillance and vision in general. (1) to deal successfully with changing weather conditions and fast events in real time. (2) The false alarm rate must be very low since the system may operate 24 hours a day all year round (3) to send out visual information to the head of security immediately, wherever he may be. This visual information consists of the track the intruder left and its silhouette. This allows the official to distinguish between human and non-human intruders. The key to this architecture is an arithmetical subtraction which is done pixel by pixel over the whole image. Basically, it is a difference between a reference image (clean image) and the one which is being received. Other steps of the process are multiple **threshold** and low-pass filtering. Filtering and dynamic range splitting are the domains in which we have worked using digital hardware techniques. Very consistent results were obtained by adaptive mean filtering and 3-class splitting respectively. Considerable progress is being made in developing an adaptive n- class splitting. Special relevance has been given to the imaging hardware which is able to control, acquire, digitize, filter, compare and add images and transmit them over a telephone line with appropriate alarms and display.

Descriptors: Computer Architecture; Image Processing; Remote Sensing; Security Systems; Television Equipment - Cameras; *Computer Vision

Identifiers: Remote Machine Vision Systems; **Surveillance** Equipment; Video Surveillance Cameras

Classification Codes:

716 (Electronic Equipment, Radar, Radio & Television)

723 (Computer Software, Data Handling & Applications)

732 (Control Devices)

914 (Safety Engineering)

43/5/9 (Item 2 from file: 2)
DIALOG(R)File 2: INSPEC
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05741555 **INSPEC Abstract Number:** B9410-6140C-050, C9410-5260B-036
Title: A real-time image-processing system for visual inspection of real environments
Author: Foresti, G.L.; Murino, V.
Author Affiliation: Dept. of Biophys. & Electron. Eng., Genoa Univ., Italy
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Language: English **Document Type:** Conference Paper (PA); Journal Paper (JP)
Treatment: Practical (P); Theoretical (T)

Abstract: Visual inspection of real environments (e.g., airports, railway stations, underground stations, etc.) is a basic task of many surveillance systems. Traditionally, the most important works of surveillance and monitoring safety have been dependent on **human visual observation**. However, a system able to detect dangerous situations can be of help to an operator, even if the replacement of human surveillance is not meant. The paper describes the application of an **image processing** system to **monitor** the area of a railway level-crossing. The objective is to develop a surveillance system prototype for unattended level-crossings, aimed at giving a real-time alarm in dangerous situations. The surveillance of unattended level-crossings, which can be often under the **remote visual surveillance** by an operator, is particularly important in the field of railway transport safety. In normal conditions, the presence of an operator is needed before and after the movement of the gate, especially when it is closed. The basic tasks to be performed by the system are: image acquisition; object detection; and object localisation. (10 Refs)

Subfile: B C

Descriptors: alarm systems; image processing; monitoring; railways
Identifiers: real-time image-processing system; visual inspection; real environments; surveillance systems; monitoring; **human visual observation**; image processing system; railway level-crossing; unattended level-crossings ; real-time alarm; dangerous situations; railway transport safety; image acquisition; object detection; object localisation
Class Codes: B6140C (Optical information and image processing); C5260B (Computer vision and picture processing); C7490 (Other engineering fields)

Web:

[no relevant results]